COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 0.21 0.21

FULL ESTIMATED COST

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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Oct 29, 2004 (20041029/UP).

=> FILE REG

COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION

FULL ESTIMATED COST 0.06 0.27

FILE 'REGISTRY' ENTERED AT 15:51:44 ON 01 NOV 2004 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2004 American Chemical Society (ACS)

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STRUCTURE FILE UPDATES: 31 OCT 2004 HIGHEST RN 773042-36-7 DICTIONARY FILE UPDATES: 31 OCT 2004 HIGHEST RN 773042-36-7

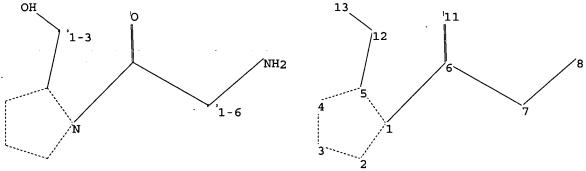
TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

Uploading C:\Program Files\Stnexp\Queries\10805624.str



chain nodes : 6 7 8 11 12 13 ring nodes : 1 2 3 4 5

Page 2

SUSANNAH

chain bonds :

1-6 5-12 6-7 6-11 7-8 12-13

ring bonds :

1-2 1-5 2-3 3-4 4-5

exact/norm bonds :

1-2 1-5 1-6 2-3 3-4 4-5 6-11 7-8 12-13

exact bonds :

5-12 6-7

isolated ring systems :

containing 1 :

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 11:CLASS

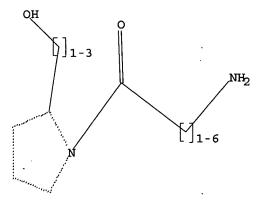
12:CLASS 13:CLASS

## L1 STRUCTURE UPLOADED

=> D

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> S L1

SAMPLE SEARCH INITIATED 15:52:19 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 16801 TO ITERATE

6.0% PROCESSED 1000 ITERATIONS

50 ANSWERS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 328261 TO 343779

PROJECTED ANSWERS: 77493 TO 85139

L2 50 SEA SSS SAM L1

=> S L1 FULL

FULL SEARCH INITIATED 15:52:34 FILE 'REGISTRY'

Page 3

SUSANNAH -

FULL SCREEN SEARCH COMPLETED - 335935 TO ITERATE

100.0% PROCESSED 335935 ITERATIONS

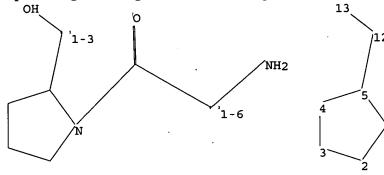
77088 ANSWERS

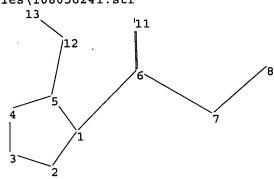
SEARCH TIME: 00.00.08

L3 77088 SEA SSS FUL L1

=>

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chain nodes:
6 7 8 11 12 13
ring nodes:
1 2 3 4 5
chain bonds:
1-6 5-12 6-7 6-11 7-8 12-13
ring bonds:
1-2 1-5 2-3 3-4 4-5
exact/norm bonds:
1-2 1-5 1-6 6-11 7-8 12-13
exact bonds:
2-3 3-4 4-5 5-12 6-7
isolated ring systems:
containing 1:

Match level :

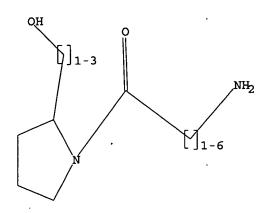
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 11:CLASS 12:CLASS 13:CLASS

L4 STRUCTURE UPLOADED

=> D L4 HAS NO

L4 HAS NO ANSWERS L4 STR

Page 4 SUSANNAH



Structure attributes must be viewed using STN Express query preparation.

=> S L4
SAMPLE SEARCH INITIATED 15:54:02 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 16801 TO ITERATE

6.0% PROCESSED 1000 ITERATIONS INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED) SEARCH TIME: 00.00.01 50 ANSWERS

FULL FILE PROJECTIONS:

ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS:

328261 TO 343779

PROJECTED ANSWERS:

77493 TO 85139

L5 50 SEA SSS SAM L4

=> S L4 FULL

FULL SEARCH INITIATED 15:54:11 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 335935 TO ITERATE

100.0% PROCESSED 335935 ITERATIONS

77003 ANSWERS

SEARCH TIME: 00.00.12

L6 77003 SEA SSS FUL L4

=> FILE CAPLUS

COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION

FULL ESTIMATED COST 312.10 312.37

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Page 5 SUSANNAH

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FILE COVERS 1907 - 1 Nov 2004 VOL 141 ISS 19 FILE LAST UPDATED: 31 Oct 2004 (20041031/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> S L6 L7 46651 L6

=> D IBIB ABS HITSTR 46640-46651

Page 6 SUSANNAH

L7 ANSWER 46640 OF 46651 CAPLUS COPYRIGHT 2004 ACS ON STN
ACCESSION NUMBER: 1954:62053 CAPLUS
DOCUMENT NUMBER: 48:62053
ORIGINAL REFERENCE NO.: 48:11000h-i
TITLE: The binding capacity of 'Amulin for ethereal oils
AUTHOR(S): Grimme, Cl.
CORPORATE SOURCE: Chem. Lab. Dr. Herman Ulex, Hamburg, Germany
SOURCE: 26itschrift fuer Lebensmittel-Untersuchung und
-Forschung (1954), 98, 400-2
CODEN: ZLUFAR; ISSN: 0044-3026

CN Glycine, L-alanyl-L-prolyl-L-arginyl-L-seryl-L-lysyl-L-isoleucyl-L-seryl-L-prolyl-L-glutaminyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

L7 ANSWER 46641 OF 46651 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1954:53115 CAPLUS
DOCUMENT NUMBER: 48:53115 CAPLUS
ORIGINAL REFERENCE NO.: 48:94319-1,9432a-b
Specificity of prolidase: effect of alterations in the

AUTHOR(S): CORPORATE SOURCE: SOURCE:

Pyrrolidine ring of glycyl-L-proline Adams, Elijah; Davis, Neil C.; Smith, Emil L. Univ. of Utah, Salt Lake City Journal of Biological Chemistry (1954), 208, 573-8 CODEN: JBCHA3; ISSN: 0021-9258

CODEN: JBCHA3; ISSN: 0021-9258

DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB cf. C.A. 47, 654f. The method of Neuberger (C.A. 39, 4868.9) gave
allohydroxy-L-proline(I), [a]20D -58.2' (c 2, water). I(II.7
g.) in 10 vols. of absolute, ECH at 0' treated with dry HCl gave 12.2
g. Et ester (III)+HCl, m. 148-51'. Carbobenzoxyglycyl chloride
(III) added to II from 4.0 g. of the HCl salt in cold EtOAc, the mixture
shaken 10 min. (ice bath), then with cold. dilute bicarbonate, the EtOAc
layer concentrated in vacuo, the ester (6 g.) in Me2CO treated

portionwise during 20 min. with 17.5 cc. of M NaOH, the product acidified to Congo

and the Me2Co removed yielded 1.9 g. carbobenzoxyglycylallohydroxy-Lproline (IV), m. 187-8°. IV (1.35 g.) hydrogenated over Pd black
in MeOH containing AcOH yielded 0.8 g. glycylallohydroxy-L-proline (V),
[q|210-96.0° (c. 2.35, water). N-Acetyl-hydroxy-L-proline
and N-acetyl-O-methylhydroxy-L-proline Me ester yielded
4-methoxy-L-proline (VI), [q|200-56° (c. 2, water); Et
ester-HcI (VII) m. 150-2°. III (3.3 g.) and the ester from 2.6 g.
VII yielded 0.4 g. glycyl-4-methoxy-L-proline (VIII), [q|21D
-99.5° (c. 1, water). The relative rates of hydrolysis of the
following substrates by prolidase were determined and the order of
susceptibility was found to be: glycyl-L-proline > V >
glycylhydroxy-L-proline = glycylsarcosine >> VIII. It is suggested
that alteration in the pyrrolidine ring of glycyl-L-proline influences

the rate of hydrolysis by prolidase because of a steric effect on the interaction of the substrate with the enzyme rather than an effect on the strength of the peptide bond. The specificity of prolidase requires in the substrate the free amino and carboxyl groups, the imido N of the peptide bond, and a relatively rigidly defined size and shape of the

imid

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o N substituents. 24587-32-4, Proline, 1-glycyl-4-hydroxy-, L-(prolidase action on) 24587-32-4 CAPLUS L-Proline, glycyl-4-hydroxy-, (4R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L7 ANSWER 46640 OF 46651 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

L7 ANSWER 46641 OF 46651 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

704-15-4, Proline, 1-glycyl-, L-(prolidase action on, and derivs.) 704-15-4 CAPLUS L-Proline, glycyl- (9CI) (CA INDEX NAME) IT

Absolute stereochemistry.

## 01/11/2004

L7 ANSWER 46642 OF 46651 CAPLUS COPYRIGHT 2004 ACS ON STN ACCESSION NUMBER: 1954:3972 CAPLUS DOCUMENT NUMBER: 48:3972 CAPLUS 48:772b-C TITLE: Peptides (column)

48:772b-c
Peptides isolated from a partial hydrolyzate of
steer-hide collagen
Kroner, Thomas D.; Tabroff, Wm.; McGarr, John J.
United Shoe Machinery Corp., Beverly, MA
Journal of the American Chemical Society (1953), 75,
4084-6
CODEN: JACSAT; ISSN: 0002-7863 AUTHOR (S): CORPORATE SOURCE: SOURCE:

DOCUMENT TYPE:

LANGUAGE:

CODEN: JACSAT; ISSN: 0002-7863

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TYPE: Journal

JOURNAI

TYPE: Journal

JOURNAI

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Absolute stereochemistry.

ANSWER 46643 OF 46651 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-B

10805624

L7 ANSWER 46643 OF 46651 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1954:1650 CAPLUS
DOCUMENT NUMBER: 48:1650
ORIGINAL REFERENCE NO.: 48:202b-d
TITLE: The maintenance of condiment capacity of spices on fine grinding
AUTHOR(S): Grimme, Clemens
CORPORATE SOURCE: Chem. Lab. Dr. Herman Ulex, Hamburg, Germany
Zeitschrift fuer Lebensmittel-Untersuchung und
-Forschung (1953), 97, 191-3
CODEN: ZUJFRAR: ISSN: 0044-3026
DOCUMENT TYPE: Journal
AB The efficiency of "Amulin" (composition: H20 9.1, protein 11.5, fat 1.7, carbohydrate 76.6, fiber 0.4, and ash 0.7) at 10 and 20% is compared with control samples for inhibiting loss of essential oils on grinding 17 spices in an elec. mill. The residual essential oil content (original unground = 100%) results were: ground controls 72.2-94.0, ground with 10% "Amulin" 84.1-100, ground with 20% "Amulin" 91.6-100%. The material oils.

gives
a strong to absolute protection against loss of essential oils.
IT 161501-89-9, Amulin
(spice grinding with)
RN 161501-89-9 CAPLUS

CN Glycine, L-alanyl-L-prolyl-L-arginyl-L-seryl-L-lysyl-L-isoleucyl-L-seryl-L-prolyl-L-glutaminyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

L7 ANSWER 46644 OF 46651 CAPLUS COPYRIGHT 2004 ACS ON STN ACCESSION NUMBER: 1953:62461 CAPLUS DOCUMENT NUMBER: 47:62461 ORIGINAL REFERENCE NO.: 47:10627g-i

The hydrolysis of proline peptides by a prolineless mutant of Escherichia coli Stone, David

AUTHOR(S): CORPORATE SOURCE:

Yale Univ.
Journal of Biological Chemistry (1953), 202, 821-7
CODEN: JBCHA3; ISSN: 0021-9258

DOCUMENT TYPE: Journal

DOCUMENT TIPE: JOURNAL
LANGUAGE: Unavailable
AB cf. C.A. 47, 8831a. A study was made of the effects of aerobic and anaerobic incubation on the growth response of a prolineless mutant of E. coli. As compared with stationary cultures under partial anaerobiosis, shake cultures show marked increases in the lag period and decreases in the growth rate when glycylprolylgylpoine (I) supplies the nutritional requirement. Under anaerobic conditions the long lag periods shown in

the presence of I and prolylglycine are greatly reduced. The hydrolysis of peptides of proline by saline exts. of the cells of the mutant was studied. In the presence of Mn and a SH compound the exts. hydrolyzed

the peptides tested. The significance of this finding is discussed in relation to the growth response of the mutant when the cultures are supplied with peptides of proline.

241-63-6, Glycine, N-(1-glycylprolyl)(effect on metabolism of Escherichia coli)

2441-63-6 CAPLUS
Glycine, glycyl-L-prolyl- (9CI) (CA INDEX NAME)

IT

Absolute stereochemistry.

L7 ANSWER 46645 OF 46651 CAPLUS COPYRIGHT 2004 ACS ON STN ACCESSION NUMBER: 1953:54754 CAPLUS DOCUMENT NUMBER: 47:54754 ORIGINAL REFERENCE NO.: 47:9263d-1

AUTHOR(S): CORPORATE SOURCE:

SOURCE: DOCUMENT TYPE:

LANGUAGE:

SINAL REFERENCE NO.: 47:9263d-i

LE: Peptidases of erythrocytes. III. Tripeptidase
Adams, Zlijah: Davis, Neil C.: Smith, Emil L.

PORATE SOURCE: Univ. of Utah, Salt Lake City
Ournal of Biological Chemistry (1952), 199, 845-56
CODEN: JBCHA3; ISSN: 0021-9258

JOHENT TYPE: Journal of Biological Chemistry (1952), 199, 845-56
CODEN: JBCHA3; ISSN: 0021-9258

JOHENT TYPE: Univ. Available
off. C.A. 47, 654d. N-(N-Carbobenzoxyglycyl)-β-alanine (4.2 g.)

moistened with CHCl3, cooled to 0°, treated with 2.1 cc. Et3N, then
with 3 cc. iso-Buo2Ccl, let stand 10 min. at 0°, added to the ester
(in ice-cold CHCl3) from 2.3 g. β-alanine Et ester-HCl (I), and the
mixture let stand 15 min. at room temperature, heated to boiling, and
ied

mixture let stand 15 min. at room temperature, heated to boiling, and ed yielded 3 g. N-{N-(N-carbobenzyloxyglycyl)-β-alanyl]-β-alanine (II) Et ester, m. 138-9°; 2 g. of the ester in aqueous Me2CO treated pertionwise during 15 min. with 5.8 cc. N NaOH yielded 1.5 g. II, m. 179-80°. II (1 g.) on hydrogenation gave 0.55 g. N-(N-glycyl-β-alanyl)-β-alanine (III). N-(N-Carbobenzyloxy-β-alanyl)-β-alanine (III). N-(N-Carbobenzyloxy-β-alanyl)-β-alanine Et ester (5.8g.) and 2 cc. 95% H4N2.H2O let stand several hrs. yielded 5.5 g. hydrazide (IV), m. 135-6°. The azide from 4.5 g. IV and the ester from 2.3 g. I'in EtOAc let stand 48 h. at room temperature yielded 4 g. N-{N-(N-CarbobenzyN-p-alanyl)-glycyl)-β-alanine Et ester (V), m. 143-4°. V (3.6 g.) with 10.4 cc. M NaOH 30 min. in Me2CO gave 2.8 g. N-[N-(N-CarbobenzyN-p-alanyl)-glycyl)-β-alanine, 187-8°; 2 g. of which yielded 1.1 g. N-(N-CarbobenzyN-p-alanyl)-glycyl)-β-alanine (22.1 g.) and the ester from 15.4 g. I let stand overnight in CHC13 yielded 14 g. N-(N-CarbobenzyN-p-alanyl)-β-alanine (24.6°) hydrazide (VII) m. 185-7°. The azide from 6.8 g. VII and the ester from 4.2 g. H2NCH2CO2Et.HCl in EtOAc let stand 48 h. at

temperature yielded 3.3 g. N-{N-(N-(arbobenzyloxy-β-alanyl)-β-alanyl)glycine Et ester (VIII), m. 148-9°. VIII (3.6 g.) gave 2.9 g. acid, m. 196-8°, 2 g. of which yielded 1.2 g. N-(N-β-alanyl-β-alanyl)glycine (IX). The azide from 6.8 g. VII and the ester from 4.6 g. I let stand 48 h. in EtOAc yielded 4.6 g. N-{N-(N-(N-carbobenzyloxy-β-alanyl)-β-alanyl-β

ions, and is strongly inhibited both by Cd and cysteine. Unlike XII from calf thymus, all substrates were hydrolyzed by the erythrocyte XII according to lst-order kinetics. N-(N-L-Prolylqlycyl]glyclne is the most sensitive substrate for XII; tripeptides in which L-proline or hydroxy-L-proline are terminal are also hydrolyzed. N-(1-Glycyl-L-prolyl)glycine is completely resistant to hydrolyzis; substrates for XII may possess a free imino group but require a peptide H at the susceptible linkage. Erythrocyte XII hydrolyzes N-(N-glycylglycyl)-β-alanine, N-(N-glycyl)-β-alanine, and also (more slowly)

ANSWER 46646 OF 46651 CAPLUS COPYRIGHT 2004 ACS on STN
SSION NUMBER: 1953:54753 CAPLUS
MENT NUMBER: 47:54753
INAL REFERENCE NO.: 47:92629-i,9263a-d
E: Partial purification and specificity of compositions ACCESSION NUMBER: DOCUMENT NUMBER: ORIGINAL REFERENCE NO.:

iminopeptidase AUTHOR(S): CORPORATE SOURCE:

TITLE: Partial purification and specificity of iminopeptidase AUTHOR(S): Davis, Neil C.; Smith, Emil L. CORPORATE SOURCE: Univ. of Utah, Salt Lake City SOURCE: Journal of Biological Chemistry (1953), 200, 373-84 CODEN: JBCHA3; ISSN: 0021-9258

DOCUMENT TYPE: Journal LANGUAGE: Unavailable AB cf. preceding abstract: C.A. 47, 654f. The azide from 5 g. carbobenzyloxyhydroxy-L-proline in EtOAc added at 0° to the ester from 3.6 g, N-glycylglycine Et ester-HCl (I) in EtOAc at 0° and the mixture let stand overnight at room temperature yielded 70% N-[N-(N-carbobenzyloxyhydroxy-L-prolyliglycyl]glycine Et ester (II), m. 144-5°. Carbobenzyloxyhydroxy-L-prolyliglycyl]glycine Et ester (II), m. CHCl3 and 2.8 cc. Et3N cooled to -5°, the mixture treated dropwise with 3.8 cc. iso-Buo2CCl, let stand 30 min., the free ester from 4 g. I

CHC13 added, the mixture let stand overnight, concentrated in vacuo, and

residue extracted with hot EtOAc yielded 38% II, m. 144-5°, [a]D21 -11.1° (c 1, EtOH). II (3 g.) in 20 cc. water treated during 20 min. with four 2-cc. portions of N HCl, and the mixture let

10 min., acidified to Congo red with 6N HCl, and concentrated to dryness

vacuo yielded 2.5 g. N-[N-(carbobenzyloxyhydroxy-L-prolyl)glycyl)glycine (III), m. 159.5-60\*, [a]D21-53.9\* (c 1, water). III (2.5 g.) on reduction yielded 1.60 g. N-[N-(hydroxy-L-prolyl)glycyl)glycine (IV), m. 216-17\* (decomposition), [a]D21-13.2\* (c 1, water). I-carbobenzyloxy-L-proline (3.8 g.) and 2.2 cc. Et3N treated dropwise with 2 cc. iso-Bu02CC1, then after 30 mln. with the ester from 3 g. I yielded 3.7 g. N-[N-(1-carbobenzyloxy-L-prolyl)glycyl]glycine Et ester (V), m. 120-20.5\*, [a]D21-23.1\* (c 1, Et0H). V (3.91 g.) kept 1 hr. at room temperature with 11 cc. N NaOH in Me2Co-water yielded 2.1 g. N-[N-(1-carbobenzoxy-L-prolyl)glycyl]glycine (VI), m. 134-5\*, [a]D21-56\* (c 1, water). VI (2 g.) on reduction yielded 1.1 g. N-(N-L-prolyl)glycyl)glycine (VII), m. 211-12\* (decomposition). N-[N-(1-carbobenzyloxylycyl)-1-prolyl]glycine (6.15 g.), 2.8 cc. Et3N, 2.62 cc. iso-Bu02CCL, and the ester from 3:07 g. I yielded 644 gum, which with 14 cc. N NaOH in aqueous Me2Co 30 min. at room temperature yielded

N-[N-(1-carbobenzyloxyglycyl)-L-prolyl]glycine (VIII), m. 144-5\*, [q]D21 -80.9\* (c 1, water). VIII (1.75 g.) on reduction yielded 1 g. N-(N-glycyl-L-prolyl)glycine (IX), [q]D21 -108.4\* (c 1, water). N-(1-Carbobenzyloxy-L-prolyl)-L-proline (3 g.) hydrogenated 6 hrs. in 5 cc. AcOH and 50 cc. absolute EtOH yielded 1

g.

N-L-prolyl-L-proline (X), (a)D21 -160.2\* (c 1, water).

N-L-Prolylhydroxy-L-proline (XI) (59% yield) [a)D21 -160.3\*
(c 1, water). Iminodipeptidase from swine kidney cortex was purified "30-fold.\*" The hydrolysis of N-L-prolylglycine and N-(hydroxy-L-prolylglycine by Mn-activated iminodipeptidase increases with increasing pH up to pH 9, at which point instability of the enzyme precludes accurate

measurements. The purified enzyme acts only on prolyl or hydroxyprolyl

L7 ANSWER 46645 OF 46651 CAPLUS COPYRIGHT 2004 ACS on STN N-(N-glycyl-β-alanyl)-β-alanine. Failure to hydrolyze tripeptides with a free β-NH2 group was confirmed for N-(N-β-alanylglycyl)glycine, and for VI, IX, and XI. Cer of cellophane dialysis membranes rapidly inactivate XII. 704-15-4, Proline, 1-glycyl-, L- 2441-63-6, Glycine, N-(1-glycyl-L-prolyl)- (tripeptidase effect on hydrolysis of) RN 704-15-4 CAPLUS CN L-Proline, glycyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

2441-63-6 CAPLUS Glycine, glycyl-L-prolyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

ANSWER 46646 OF 46651 CAPLUS COPYRIGHT 2004 ACS on STN (Continued) dipeptides which possess both a free α-amino and a free α-carboxyl group adjacent to the sensitive bond. Iminodipeptides contg, glutamic or aspartic acid are not attacked by the enzyme. Crude exts. of swine kidney cortex contain metal-activated enzymes which hydrolyze the amides of L-proline and hydroxy-L-proline, and certain tripeptides contg. these imino acids.

2441-63-6, Glycine, N-(1-glycyl-L-prolyl)(preparation of)

2441-63-6 CAPLUS

Glycine, glycyl-L-prolyl- (CALLUS) (Continued)

Glycine, glycyl-L-prolyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry

L7 ANSWER 46647 OF 46651 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1949:50972 CAPLUS
DOCUMENT NUMBER: 43:50972
ORIGINAR REFERENCE NO: 43:9148c-f
Utilization of amino acids and peptides by mutant
strains of Escherichia coli
AUTHOR(S): Simmonds, Sofia; Fruton, Joseph S.
SOURCE: Journal of Biological Chemistry (1949), 180, 635-46
CODEN: JBCHA3; ISSN: 0021-9258

DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB cf. C.A. 41, 5575d. Growth curves are presented for a phenylalanine-less
(I), a proline-less (II), and a leucine-less (III) strain of Escherichia
coli and were obtained by measuring the extent of bacterial growth as a
function of time at varying concns. of the appropriate amino acid and
related peptides. I gave the same growth response to equimolar concns.

L-phenylalanine and glycyl-L-phenylalanine. II grew approx. twice as uell

in the presence of glycyl-L-proline as with L-proline, when the growth

limited to the amount of proline (free amino acid or dipeptide) in the medium. III required a longer period for the initiation of rapid growth in the presence of glycyl-L-leucine than with L-leucine. The duration of this lag-phase increased with the increased concentration of the

Equimolar concns. of L-leucine and glycyl-L-leucine produced the same

of bacterial growth. The response of III to the L-leucine and the dipeptide was independent of the composition of the medium in which the inoculum was grown. III grew slowly in the presence of L-leucinamide acctate, except when high concns. of the compound were present. 704-15-4, Proline, l-glycyl- (utilization by prolineless strain of Escherichia coli) 704-15-4 CAPLUS
L-Proline, glycyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

IT

ANSWER 46648 OF 46651 CAPLUS COPYRIGHT 2004 ACS on STN carbobenzoxy-B-alanylglycylglycine, m. 184-5; ß-alanylglycylglycine, m. 228\*, (decompn.); carbobenzoxyglycyl-β-alanylglycine, medles, m. 177-180\*; glycyl-β-alanylglycine, medles, m. 177-180\*; glycyl-β-alanylglycine, medles, m. 177-180\*; carbobenzoxydiglycyl-β-alanine, m. 187-199\*; carbobenzoxydiglycyl-β-alanine, m. 187-199\*; carbobenzoxydiglycyl-β-alanine, m. 187-199\*; carbobenzoxydiglycyl-β-alanine, carbobenzoxy-β-alanylglycinamide, m. 176\* P-alanylglycinamide acetate, m. 118-120\*; carbobenzoxyglycyl-β-alanine ethyl ester, needles, m. 63-64\*; carbobenzoxyglycyl-β-alanine ethyl ester, needles, m. 59-96\*; carbobenzoxy-β-alaninamide, plates, m. 164\*; hadinamide acetate, prisms, m. 118\*; L-alaninamide-HCl, needles, m. 196-199\*; benzoyl-L-alaninamide, prisms, m. 1235-240\*.
704-15-4, Proline, l-glycyl-, L-(hydrolysis of, by prolidase)
704-15-4 CAPLUS
L-Proline, glycyl- (9C1) (CA INDEX NAME) (Continued)

IT

Absolute stereochemistry.

L7 ANSWER 46648 OF 46651 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1949:6583 CAPLUS
DOCUMENT NUMBER: 43:6583
ORIGINAL REFERENCE NO.: 43:148a-i
Haplication of peptides containing \$\beta-alanine to Application of Peptides Containing \$\beta-alanine to Company of the Study of the specificity of various peptidases
AUTHOR(S): Hanson, H. Theo.; Smith, Emil L.
SOURCE: Journal of Biological Chemistry (1948), 175, 833-48
CODEN: JSCHA3; 155N: 0021-9258
JOURNAL JOURNAL

by at least 1000 times as compared to the corresponding L-alanine

Distribution of the series of the series of the series of a CR2 group between the free amino group and the series by letters this suggests that its specificity is essentially that of an amidase and that it is capable of hydrolyzing many types of substituted amides as well as peptides. Partially purified prolidase from hog intestinal mucosa hydrolyzes glycyl-L-proline about 330 times as fast as \$\beta - \text{almay1-L-proline}\$. The great reduction in the rate of hydrolyzis by the insertion of a CR2 group between the free amino group and the sensitive peptide bond indicates, that this distance is quite critical Glycyl-L-leucine dipeptidese from

that this distance is quite critical Glycyl-L-leucine dipeptidase from in uterus (Smith, Federation proc. 7, 189(1948)) hydrolyzes glycyl-L-leucine about 250 times as fast as \$\beta=\text{align\*alig

L7 ANSWER 46649 OF 46651 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1935:28454 CAPLUS
DOCUMENT NUMBER: 29:28454
ORIGINAL REFERENCE NO.: 29:3701g-1
TITLE: The titration constants of some amides and dipeptides in relation to alcohol and formaldehyde titrations of amino nitrogen
AUTHOR(S): Helville, James: Richardson, George M.
Biochemical Journal (1935), 29, 187-95
CODEN: BIJOAK; ISSN: 0264-6021
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB cf. C. A. 28, 5007.3. Titration consts. at 25\* were determined for d-glutamine, d-isoglutamine, l-isoasparagine, d-glutaminylglycine, d-glutaminyl-d-glutamic acid and d-alenyl-1-proline and redetd. for d-tyroxyl-d-arginine and glycyl-1-proline. The factors influencing the magnitude of the respective pK' values are discussed. a-Amides and a-peptides possess characteristically different consts. from their β- or y-analogs. In certain peptides the pK'NHZ values are usually low and the influence of this fact on the estimation of biol. amino N
and on the study of the peptidase action is discussed. These low values

amino N and on the study of the peptidase action is discussed. These low values of peptides from protein scission will not affect the titrimetric estimation of

mation of the extent of hydrolysis, but will require a careful selection of the proper buffers for peptidase studies to allow a more nearly constant pH during hydrolysis. The advantages of using isoglutamine as a buffer in such cases are given and the composition and stability data of buffer

s. containing it are included.

3918-95-6, Proline, 1-alanyl(titration consts. of)

3918-95-4 CAPLUS

Proline, 1-DL-alanyl-, DL- (8CI) (CA INDEX NAME)

L7 ANSWER 46650 OF 46651 CAPLUS COPYRIGHT 2004 ACS ON STN ACCESSION NUMBER: 1933:695 CAPLUS
DOCUMENT NUMBER: 27:695
ORIGINAL REFERENCE NO.: 27:108c-f

Proteolytic enzymes, behavior of proline peptides Bergmann, Max; Zervas, Leonidas; Schleich, Hans; Leinert, Fritz Z. physiol. Chem. (1932), 212, 72-84 Journal AUTHOR (S):

SOURCE:

DOCUMENT TYPE:

NAGE: Unavailable
Proline peptides differ from all other peptides in that no H is present

Proline peptides differ from all other peptides in that no H is present the peptide linkage. Two examples were synthesized for the purpose of testing their behavior toward enzymes. The recently described method (C. A. 26, 5072) in which PCH202CMHCHCOCOL is coupled with an amino acid and the product hydrogenated is especially applicable here where the usual method of peptide synthesis fails. 1-Proline + PhCH202CMHCH2COCI → N-carbobenzoxyglycyl-1-proline, m. 156°, +,Pd-H2 → glycyl-1-proline (1], m. 185°, (e)D20 - 113.8°, yield 80%. 1-Proline + PhCH202CMHCHMCCOCI → N-carbobenzoxyd-alanyl-1-proline (not crystallized), → d-alanyl-1-proline (II), m. 178°, (e)D20 - 114.4°. Similarly, sarcosine → carbobenzoxyglycylsarcosine, m. 102°, → glycyl-1-glat.4°. Similarly, sarcosine → carbobenzoxyglycylsarcosine, m. 102°, → glycylsarcosine (III), m. 220°. I and II are hydrolyzed by extract of intestinal mucosa and by fresh yeast autolyzate, but not by pancreatin. III is attacked by the aminopolypeptidase fraction of erepsin, but not by proteinase or dipeptidase. The active enzyme is probably not identical with Grassmann's prolinase which splits peptides of the prolylglycine type. It is either an aminopolypeptidase for a new enzyme. III is also resistant to dipeptidase. The presence of H in the peptide linkage is essential for the activity of dipeptidase. The cleavage of I and II is the first instance of a proteolytic liberation of carboxyl without simultaneous formation of N determinable by the Van Slyke method. This discrepancy may be expected in all proteins which contain considerable proline or hydroxyproline in N-peptide linkage.

3918-95-4 CAPLUS
Proline, 1-DL-alanyl-, DL- (8CI) (CA INDEX NAME)

ANSWER 46651 OF 46651 CAPLUS COPYRIGHT 2004 ACS on STN (Continued) residue evidently consisted of a mixt. of amide and anhydride. These dipeptides and some of the amides and haloacylprolines were tested for enzymic hydrolysis. Trypsin-kinase attacked none of the dipeptides, and erepsin only glycylproline to a slight extent. Bromoisocaproyl-1-proline was hydrolyzed by trypsin-kinase, while bromopropionyl-1-proline remained unaltered. Neither enzyme attacked hydroxycaproyl-1-prolinamide. 3918-95-4, Proline, 1-alanyl- (and derivs.) 3918-95-4 CAPLUS Proline, 1-DL-alanyl-, DL- (8CI) (CA INDEX NAME)

20488-27-1, Proline, 1-valy1-(preparation of) 20488-27-1 CAPLUS L-Proline, L-valy1- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L7 ANSWER 46651 OF 46651 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1931:688 CAPLUS
DOCUMENT NUMBER: 25:688
ORIGINAL REFERENCE NO.: 25:77d-i
TITLE: The behavior of polypeptides containing proline

erepsin and the trypsinkinase complex Abderhalden, Emil; Zumstein, Otto Fermentforschung (1930), 12, 1-19 CODEN: FEFCAG; ISSN: 0367-2034 Journal Unavailable AUTHOR (S): SOURCE:

DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB A series of dipeptides was prepared in which proline carries the terminal
CO2H. The method consisted in coupling a haloacyl halide with 1-proline
and amination of the resulting haloacylproline with NH4OH. A

complication
encountered was the formation of hydroxyacylprolinamide which had to be
separated from the dipeptide, and also in some cases a racemization of

proline. The amount of amide obtained increased with the size of the haloacyl halides used, e.g., 5-7% with CLCHZCOC1, 13% with MeCHBrCOBr, 28-30% with ECCHBrCOBr, and 70-80% with MeZHGHCCHBRCOBr. In contrast tother MeZCHCHZCHBrCO amino acids, the proline derivative was aminated with

28-30% with ECCHBrCOBr. and 70-80% with MeZCHCHBrCOBr. In contrast to other MeZCHCHBrCO amino acids, the proline derivative was aminated with at ease, 71% of the Br being replaced in 2 days. When proline Me ester was condensed with haloacyl halide and the product aminated by ale. NH3 both the expected anhydride and also the dipeptide ester were obtained. 1-Proline in N NaON was condensed with ClCH2COG1 to form chloroacetyl-1-proline, m. 112-3', which on amination with 25% NH4GH yielded glycolyl-1-prolinamide, m. 90', and glycyl-1-proline, [o]D18-86.21'. By the same procedure, proline + MeCHBrCOBr + d1-a-hydroxypropionyl-1-prolinamide, m. 109-10', d1-alanyl-1-proline, m. 280' and d1-alanyl-1-proline, [d]D18-92.68'. The Me ester of I + NH3 in MeOH + d1-alanyl-1-proline me ester, m. 89-93', and d1-alanyl-1-proline anhydride, m. 114-5', the anhydride and dipeptide ester occurring in the proportion 1:2. Proline + d1-achtCHBrCOBr + d1-achtcoxybutryl-1-prolinamide, m. 76-8', d1-a-aminobutryl-1-prolinamide, m. 76-8', d1-a-aminobutryl-1-prolinamide, m. 76-8', d1-a-aminobutryl-1-prolinamide, m. 89-0', d1-aninobutyl-1-proline, m. 28-9', and d1-norwalyl-1-proline, (a)D18-45.4', and d1-a-aminobutyryl-1-proline, m. 28-9', and d1-norwalyl-1-proline, (a)D18-45.25'. Proline + d1-MeZCHCHBrCOBr + d1-a-bromosovaleryl-1-proline, m. 28-9', and d1-norwalyl-1-proline, m. 27-9', d1-a-hydroxybutryl-1-proline (not obtained crystalline) + d1-a-hydroxybutryl-1-proline (

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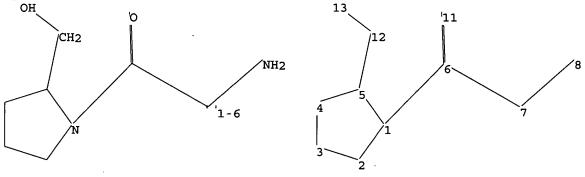
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chain nodes : 6 7 8 11 12 13 ring nodes : 1 2 3 4 5

chain bonds:

1-6 5-12 6-7 6-11 7-8 12-13

ring bonds :

1-2 1-5 2-3 3-4 4-5

exact/norm bonds :

Page 12 SUSANNAH

1-2 1-5 1-6 6-11 7-8

exact bonds :

2-3 3-4 4-5 5-12 6-7 12-13

isolated ring systems : ·

containing 1 :

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 11:CLASS

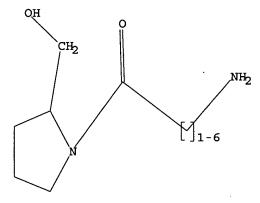
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Page 13 SUSANNAH

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=> S L9 L10 16 L9

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Page 14

SUSANNAH

L10 ANSWER 1 OF 16
ACCESSION NUMBER:
DOCUMENT NUMBER:
11:140758
Synthesis of D- and
L-2,3-trans-3,4-cis-4,5-trans-3,4Dihydroxy-5-hydroxymethylproline and Tripeptides
Containing Them
AUTHOR(S):
Moreno-Vargas, Antonio J.: Robina, Inmaculada;
Petricci, Elena; Vogel, Pierre
CORPORATE SOURCE:
Laboratoire de Glycochimie et de Synthese

Asymetrique,

Swiss Federal Institute of Technology (EPFL), Lausanne-Dorigny, CH-1015, Switz. Journal of Organic Chemistry (2004), 69(13),

SOURCE: 4487-4491 CODEN: JOCEAH: ISSN: 0022-3263 American Chemical Society Journal English

PUBLISHER:

DOCUMENT TYPE: LANGUAGE: GI

Enantiomerically pure (-)- and (+)-7-(tert-butoxycarbonyl)-5,6-exo-isopropylidenedloxy-7-azabicyclo[2.2.1]heptan-2-ones, I and II, resp., were prepared I and II were converted into D- and 3-trans-3,4-cia-4,5-trans-N-(tert-butoxycarbonyl)-5-hydroxymethyl-3,4-isopropylidenedioxyprolines, III and IV, resp. Applying the Boc and Fmoc

L10 ANSWER 2 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:334930 CAPLUS
DOCUMENT NUMBER: 138:334966
Hethod for re-sensitizing vancomycin resistant
bacteria using agents which selectively cleave a cell
wall depaipeptide
LINVENTOR(S): Chiosia, Gabriela; Boneca, Ivo G.; Still, W. Clark
PATENT ASSIGNEE(S): The Trustees of Columbia University in the City of

York, USA PCT Int. Appl., 105 pp. CODEN: PIXXD2 Patent

SOURCE:

English

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

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WC	WO 2003035098						2003	0501		WO 2	002-		20020823				
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OTHER SOURCE(S):

R SOURCE(S): MARPAT 138:331666

The present invention relates a method for re-sensitizing vancomycin resistant Gram-pos. bacteria in which resistance results from the conversion of an amide bond to an ester bond in the cell wall peptide precursors of the bacteria which comprises using an antibacterial amount

vancomycin or a homolog of vancomycin and an amount of an agent

effective to

ctive to selectively cleave the ester bond to thereby re-sensitize vancomycin resistant bacteria. 376643-21-9P 376643-22-09 376643-23-19 376643-24-2P 
81. PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(re-sensitizing vancomycin resistant Gram-pos. bacteria using agents which selectively cleave ester bond of D-Ala-D-Lac cell wall depsipeptide)
376643-17-3 CAPLUS
2-Pyrrolidinemethanol, 1-(6-amino-1-oxohexyl)-, (2S)- (9CI) (CA INDEX

L10 ANSWER 1 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN (Continued) strategies of peptide synthesis, these compds. were used to construct two tripeptides. For example, III was incorporated into peptide synthesis to give tripeptide V.

IT 726192-28-59
RL: SPN (Synthetic preparation); PREP (Preparation)
(asym. preparation of (dihydroxy)hydroxymethylproline and its incorporation
Into tripeptides)
RN 726192-28-5 CAPLUS
CL -Valine, D-alanyl-(38,4R,5R)-3,4-dihydroxy-5-(hydroxymethyl)-D-prolyl-, phenylmethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

REFERENCE COUNT: THIS

43 THERE ARE 43 CITED REFERENCES AVAILABLE FOR

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FORMAT

L10 ANSWER 2 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN NAME) (Continued)

Absolute stereochemistry.

376643-20-8 CAPLUS 2-Pyrrolidinemethanol, 1-(aminoacetyl)-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

376643-21-9 CAPLUS 2-Pyrrolidinemethanol, 1-(3-amino-1-oxopropyl}-, (2S)- {9CI} (CA INDEX NAME)

Absolute stereochemistry.

376643-22-0 CAPLUS
2-Pyrrolidinemethanol, 1-{4-amino-1-oxobuty1}-, (2S)- {9CI} (CA INDEX NAME)

Absolute stereochemistry.

376643-23-1 CAPLUS 2-Pyrrolidinemethanol, 1-(5-amino-1-oxopentyl)-, (25)- (9CI) (CA INDEX SUSANNAH

Page 15

PRI

Absolute stereochemistry.

376643-24-2 CAPLUS

2-Pyrrolidinemethanol, 1-(7-amino-1-oxoheptyl)-, (25)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

518012-31-2

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (re-sensitizing vancomycin resistant Gram-pos. bacteria using agents which selectively cleave ester bond of D-Ala-D-Lac cell wall

depsipeptide)
518012-31-2 CAPLUS
2-Pyrrolidhemethanol, 1-[(2S)-2-amino-1-oxopropyl]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

REFERENCE COUNT:

FORMAT

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

L10 ANSWER 3 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN ACCESSION NUMBER: 2001:643886 CAPLUS DOCUMENT NUMBER: 136:2743

DOCUMENT NUMBER: TITLE:

136:2743
Selective cleavage of D-Ala-D-Lac by small molecules: re-sensitizing resistant bacteria to vancomycin Chiosis, Gabriela: Boneca, Ivo G. Department of Chemistry, Columbia University, New York, NY, 10027, USA Science (Washington, DC, United States) (2001), 293(5534), 1484-1487
CODEN: SCIEAS; ISSN: 0036-8075
American Association for the Advancement of Science Journal English

AUTHOR(S): CORPORATE SOURCE:

SOURCE:

PUBLISHER:

MENT TYPE: Journal
UNGE: English
Pathogenic enterococci are becoming resistant to currently available
antibiotics, including vancomycin, the drug of last resort for Gram-pos.
infections. Enterococci pose a significant public health threat, not
least because of the risk of transferring vancomycin resistance to the
ubiquitous Staphylococcus aureus. Vancomycin resistance is manifested by
cell wall peptidoglycan precursors with altered termini that cannot bind
the antibiotic. Small mols. with well-oriented nucleophile-electrophile
assembly and complementary chirality to the peptidoglycan termini were
identified as catalytic and selective cleavers of the peptidoglycan
precursor depsipeptide. These mols. were tested in combination with
vancomycin and were found to re-sensitize vancomycin-resistant bacteria

the antibiotic. 376643-17-3 376643-19-5 376643-20-8 376643-21-9 376643-22-0 376643-23-1 376643-24-2 IT

376643-24-2
RL: BSU (Blological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (selective cleavage of D-Ala-D-Lac by small mols.: re-sensitizing resistant bacteria to vancomycin) 376643-1-3 CAPLUS

2-Pyrrolidinemethanol, 1-(6-amino-1-oxohexyl)-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

376643-19-5 CAPLUS

2-Pyrrolidinemethanol, 1-{(2R)-2-amino-1-oxopropy1)-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L10 ANSWER 2 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

L10 ANSWER 3 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

376643-20-8 CAPLUS
2-Pyrrolidinemethanol, 1-(aminoacetyl)-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

376643-21-9 CAPLUS 2-Pyrrolidinemethanol, 1-(3-amino-1-oxopropyl)-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

376643-22-0 CAPLUS 2-Pyrrolidinemethanol, 1-(4-amino-1-oxobutyl)-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

376643-23-1 CAPLUS 2-Pyrrolidinemethanol, 1-(5-amino-1-oxopentyl)-, (2S)- (9CI) (CA INDEX NAME)

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L10 ANSWER 3 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN Absolute stereochemistry.

2-Pyrrolidinemethanol, 1-(7-amino-1-oxoheptyl)-, (25)- (9CI) (CA INDEX NAME) 376643-24-2 CAPLUS

Absolute stereochemistry.

REFERENCE COUNT:

THERE ARE 18 CITED REFERENCES AVAILABLE FOR RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L10 ANSWER 4 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

REFERENCE COUNT:

35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

10805624

L10 ANSWER 4 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2000:539139 CAPLUS
DOCUMENT NUMBER: 133:277734
The degradation of glycoproteins with lithium borohydride: isolation and analysis of

O-glycopeptides

with reduced C-terminal amino acid residue Arbatsky, N. P.; Likhosherstov, L. M.; Serebryakova, M. V.; Brusov, O. S.; Shibaev, V. N.; Derevitskaya, AUTHOR (S):

A.; Kochetkov, N. K.
Zelinskii Institute of Organic Chemistry, Russian
Academy of Sciences, Moscow, 117334, Russia
Russian Journal of Bioorganic Chemistry (Translation
of Bioorganicheskaya Khimiya) (2000), 26(1), 45-53
CODEN: RJBCET; ISSN: 1068-1620
MAIK Nauka/Interperiodica CORPORATE SOURCE:

CODEN: RJBCET: ISSN: 1068-1620

MAIK Nauka/Interperiodica

DOCUMENT TYPE: Journal

LANGUAGE: English

AB By the example of fetuin and a blood-group-specific mucin from porcine stomach, we showed that, under conditions of reductive degradation of glycoproteins with LiBH4-LiON in 70% aqueous tert-Bu alc., the reduction

cleavage of amide bonds occur much faster than the simultaneous  $\beta$ -elimination of carbohydrate chains O-linked with Ser and Thr residues of the peptide chain. The major degradation products

containing the
O-linked glycans are the O-glycosylated derivs. of
2-aminopropane-1,3-diol
and 2-aminobutane-1,3-diol (the products of reduction of glycosylated

Thr) and the glycopeptides containing 2-4 amino acid residues with

ced
C-terminal amino acid. Seventeen homogeneous O-glycopeptides were
isolated from the fetuin degradation products by ion-exchange and
reversed-phase HPLC. Their structures were determined by MALDI-TOF mass
spectrometry and by analyses for amino acids, amino alcs., and
carbohydrates. The application of the reaction for characterization of
O-glycans and localization of O-glycosylation sites in O- and
N,O-glycoproteins is discussed.
29197-67-4

RE: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)

(structure of fetuin degradation products obtained by reductive

(structure of fetuin degradation products obtained by reductive radation with LiBH4-LiOH in aqueous tert-Bu alc.)
299197-67-4 CAPLUS
2-Pyrrolidinemethanol, 1-[(2S,3R)-3-[(0-{N-acetyl-α-neuraminosyl)-(2-3)-0-β-D-galactopyranosyl-(1-3)-2-(acetylamino)-2-deoxy-α-D-galactopyranosyl)-(1-3)-2-(acetylamino)-2-deoxy-α-D-galactopyranosyl)-(2-3)-(CA INDEX NAME)

Absolute stereochemistry.

L10 ANSWER 5 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN ACCESSION NUMBER: 1997:757024 CAPLUS
DOCUMENT NUMBER: 128:13442

TITLE:

Preparation of alkene pseudopeptides as picornavirus 3C protease inhibitors
Webber, Stephen E.; Dragovich, Peter S.; Prins,

INVENTOR (S):

J.; Reich, Siegfried H.; Little, Thomas L., Jr.; Littlefield, Ethel S.; Marakovits, Joseph T.; Babine, Robert E.; Bleckman, Ted M. Agouron Pharmaceuticals, Inc., USA PCT Int. Appl., 222 pp. CODEN: PIXXD2 Patent

PATENT ASSIGNEE(S):

DOCUMENT TYPE:

English

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

	IFNI	NO.			KIND DATE					APPI	DATE						
WO	9743	305			Al 19971120						19970513						
	W:	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BY,	CA,	CH,	CN,	CU,	CZ,	DI
		DK,	EE,	ES,	FI,	GB,	GE,	GH,	Hυ,	IL,	. IS,	JP,	KE.	KG.	KP.	KR.	K
											MK,						
		PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	TJ.	TM,	TR.	TT,	UA,	UG.	UZ.	V
		YU,	AM,	AZ,	BY,	KG,	KZ,	MD,	RU,	TJ,	TM						
	RW:	GH,	KE,	LS,	MW,	SD,	SZ,	UG,	AT,	BE,	CH,	DE,	DK,	ES,	FI,	FR,	G
		GR,	IE,	IT,	LU,	MC,	NL,	PT,	SE,	BF,	BJ,	CF,	CG,	CI,	CM,	GA,	G
		ML,	MR,	NE,	SN,	TD,	TG										
US	5856	530			A		1999	0105	1	US 1	1997-	8503	98		1	19970	50
CA	2254	343			AA		1997	1120		CA I	1997-	2254	343		1	19970	51
ΑU	9730	059			A1		1997	1205		AU I	1997-	3005	9		1	9970	51
ΑU	7227	04			B2		2000	0810			1997- 1997- 1997- 1997- 1997-						
ZΑ	9704	108			А		1998	0820		ZA I	1997-	4108			1	9970	51
EΡ	9105	72			A1		1999	0428	1	EP 1	1997-	9247	07		1	9970	51
	R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	P
		ΙE,	SI,	LT,	LV,	FI,	RO										
JΡ	2000	5069	03		T2		2000	0606		JP 1	1997- 1997- 1998- 1999-	5410	76		1	9970	51
TW	5742	26			В		2004	0201		IW 1	1997-	8610	6355		1	9970	51
KR	2000	0110	19		A		2000	0225	1	KR 1	L998-	7091	69		1	9981	11
US	6214	799			B1		2001	0410	1	US 1	1999-	2262	05		1	9990	10
US	6362	166			B1		2002	0326	1	US 2	-000	6897	17		2	20001	01
ITY	APP	LN.	INFO	.:					1	US 1	1996-	1766	6P		P !	9960	51
								′	,	US 1	1996-	6456	в7		A. 1	9960	51
									1	US 1	1997-	8503	98	i	A 1	9970	50
									,	#O 3	1997-	US81	12	1	w )	9970	51
										US 1	1999-	2262	05		A3 1	9990	10

OTHER SOURCE(S): MARPAT 128:13442

10805624

L10 ANSWER 5 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

Picornaviral 3C protease inhibitors I [R1 = H, F, alkyl, OH, SH, O-alkyl, S-alkyl; R2, R5 = independently H, XYlAl(B1)D1, alkyl group different

XYIA1(B1)D1, with the proviso that both R2 and R5 = H and when R2 or R5 = XYIA1(B1)D1, X = CH or CF and Y1 = CH or CF; R3, R6 = independently

F, alkyl: ZR4 = H, OH, suitable organic group: Z, Z1 = independently H,

alkyl, cycloalkyl, heterocycloalkyl, aryl, heteroaryl, etc; XY1 form 3-membered ring with Q1, Q1 = CR10R11, O, X = CH, CF, Y = CH, CF,

C-alkyl;
RiO, Ril = independently H, halo, alkyl; CRIORII = cycloalkyl,
heterocycloalkyl; X = CR2, CF2, CHF, S; Yl = O, S, NR12,, CR12R14, CO,

C(CR13R14); R12 = H, alkyl; R13, R14 = independently H, F, alkyl; CR13R14 = cycloalkyl, heterocycloalkyl; A1 = C, CH, CF, S, P, Se, N, NR15, S(0), Se(0), P(OR15), P(NR15R16); R15, R16 = independently alkyl, cycloalkyl, heterocycloalkyl, aryl, heteroaryl; D1 = moiety containing electron lone

heterocyclosikyl, aryl, heteroaryl; D1 = moiety containing electron lone
pair

capable of forming hydrogen bond: B1 = H, F, alkyl, cyclosikyl,
heterocyclosikyl, aryl, heteroaryl, OR17, SR17, NR1718, NR19NR17R18,
NR17OR18; R17-R19 = H, any group R15; with provisos), and
pharmaceutically
acceptable saits thereof and prodrugs thereof, obtainable by chemical
synthesis, inhibit or block the biol. activity of picornaviral 3C
proteases. These compds., as well as pharmaceutical compns. that contain
these compds., are suitable for treating patients or hosts infected with
one or more picornaviruses. Several novel methods and intermediates can
be used to prepare the novel picornaviral 3C protease inhibitors of the
present invention. Thus, olefination of protected peptide aldehyde
Z-L-Leu-L-Phe-I-Met(O)-H (2 = PhcH2O2C), prepared in 3 steps from
L-methioninol and Z-L-Leu-L-Phe-OH, with
(carbethoxymethylene)triphenylpho
sphorane gave 74% title compound II. II and related alkene
pseudopeptides

L10 ANSWER 6 OF 16 CAPLUS COPYRIGHT 2004 ACS ON STN ACCESSION NUMBER: 1997:640667 CAPLUS DOCUMENT NUMBER: 127:318974

DOUBLET TYPE: Patent Information:

127:318974
Preparation of 7-heterocyclylpyrrolo[2,3-d]pyrmidines and analogs as protein tyrosine kinase pp60c-src inhibitors

INVENTOR(S): Altmann, Eva Altmann, Eva PATENT ASSIGNEE(S): Novartis A.-G., Switz.; Altmann, Eva PCT Int. Appl., 66 pp.

CODE: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PA	FENT	NO.			KIN		API	PLI	DATE									
						A1 19970925													
	WO	9734	895							WO 1997-EP1095							19970305		
		W:	AL,	AU,	BA,	BB,	BG,	BR,	CA,	CN,	CL	J,	CZ,	EE,	GE,	HU,	IL,	IS,	JP,
			KP,	KR,	LC,	LK,	LR,	LT,	LV,	MG,	M	۲,	MN,	MX,	NO,	NZ,	PL,	RO,	SĢ,
			SI,	SK,	TR,	TT,	UA,	US,	UZ,	VN,	ΥU	J,	AM,	AZ,	BY,	KG,	KZ,	MD,	RU,
			TJ,	TM															
		RW:	GH,	KE,	LS,	MW.	SD,	SZ,	UG,	AT.	BE	Ξ.	CH,	DE,	DK.	ES.	FI.	FR.	GB.
									PT,										
						SN.													
	CA	2249	739			ΑÀ		1997	0925		CA	19	97-	2249	739		1	9970	305
	AU	CA 2249739 AU 9721534				A1		1997	AU 1997-21534					4		19970305			
	AU	7163	83			B2		2000	0224						-		-		
	EP	8883	53			A1		1999	0107		ΕP	19	97-9	9141	89		1	9970	305
	EP 888353				В1	EP 1997-914189													
		R:	AT.	BE.	CH.	DE.	DK.	ES.	FR,	GB.	GP	١.	IT.	LT.	III.	NI	SE.	PT.	IE.
FI				,	,	,	,	,	,	,		•	,	,	,	,	,	,	,
	CN	1216	544			А		1999	0512		CN	19	97-	1938	39		1	9970	305
	CN	1216 1079	796			В			0227								•		
	BR	9709 3318	443			Ā					BR	15	97-9	9443			1	9970	305
	NZ	3318	04			A		2000	0810 0428		NZ	19	97-	3318	04		ī	9970	305
	JP	2000	5065	37		T2			0530										
		2447				E		2003	0715		AT	19	97-9	9141	B 9		1	9970	305
	PT	8883	53			T			1128						89				
	ES	2203	793			T3		2004	0416		ES	15	97-9	9141	89		ī	9970	305
	US	6051	577			D.		2000	041R		211	19	198-1	1425	48		1	9980	910
		9804				A		1998	1105		NO	19	98-	1199			1	9980	911
PRIO	RIT	APP	LN.	INFO	. :						СН	19	96-6	694		i	A I	9960	315
											wo	19	97-1	EP10	95	,	<b>v</b> 1	9970	305
																	-	• •	

OTHER SOURCE(S):

MARPAT 127:318974

Page 18 SUSANNAH

L10 ANSWER 5 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

Were tested for inhibition of rhinovirus protease, with II showing Ki =
4.3 µM.

IT 199004-08-5p RL: BAC (Biological activity or effector, except adverse); BSU (Biological

Absolute stereochemistry. Double bond geometry as shown.

L10 ANSWER 6 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN

Title compds. [I; R = R5Z(CH2)0-4; R1 = aryl; R2,R3 = H, halo, alkyl; R5 H, alkyl, alkanoyl, alkoxycarbonyl, etc.; Z = (un) substituted pyrrolidine-1,2- or 1,3-diyl, -piperidine-1,2-, -1,3-, or -1,4-diyl prepared as protein tyrosine kinase pp60c-src inhibitors (no data).

PhCOCH2NHAC was cyclocondensed with CH2(CN)2 and the product condensed with HC(OEt)3 and NH3 to give N-(3-cyano-4-phenyl-2-pyrrolyl)formamidine which was cyclized to give, after deprotection, I (R1 = Ph, R2 = R3 = H)(II; R = H) which was condensed with Me 4R)-1-tert-butoxycarbonyl-4-tosyloxypyrrolidine-2-carboxylate to give, after deprotection, II [R = (2R, 48)-2-ethoxycarbonyl-4-pyrrolidinyl].

L10 ANSWER 7 OF 16 CAPIUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1991:536560 CAPIUS
DOCUMENT NUMBER: 115:136560 CAPIUS
TITLE: Synthesis and biological evaluation of 4-purinylpyrrolidine nucleosides
AUTHOR(S): Peterson, Mark L.: Vince, Robert
CORPORATE SOURCE: Coll. Pharm., Univ. Minnesota, Minneapolis, MN,

CORPORATE SOURCE: 55455,

Journal of Medicinal Chemistry (1991), 34(9), 2787-97 CODEN: JMCMGR; ISSN: 0022-2623 Journal English SOURCE:

DOCUMENT TYPE: LANGUAGE:

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

The synthesis of several novel carbocyclic purine nucleosides which incorporate a nitrogen in place of carbon 3 of the cyclopentyl molety are described. These analogs are derived from the key stereochem defined intermediate N-(tert-butoxycarbonyl)-O-[(4-methoxyphenyl)diphenylmethyl-trans-4-hydroxy-D-prolinol (I), which was accessible in 61.18 overall yield for a five-step sequence starting from cis-4-hydroxy-D-proline.

heterocyclic bases, 6-chloropurine and 2-amino-6-chloropurine, are efficiently introduced onto the pyrrolidine ring via a Mitsunobu-type coupling procedure with PhPP and di-Et azodicarboxylate. Standard transformations and removal of protecting groups gave the cis-adenine, hypoxanthine, 2,6-diaminopurine, and guanine D-prolinol derivs. II (X =

Y = NH2, OH; X = NH2, Y = NH2, OH). In addition, a related sequence from trans-4-hydroxy-L-proline provided the enantiomeric L-prolinol guanine derivative The 6-(dimethylamino)purine analog, was coupled to N-(benzyloxycarbonyl)-p-methoxy-L-phenylalanine to provide, after deprotection, the novel puromycin-like analog III. The analogs II and

III were evaluated for antitumor and virucidal activity. These compds.

to appreciably inhibit the growth of P388 mouse leukemia cells in vitro

concns. up to 100  $\mu g/mL$  . In addition, they did not exhibit noticeable activity against the HIV or herpes simplex virus type 1 at concns. as

as 100  $\mu M.$  The adenine analog, I (X = H, Y = NH2) proved to be a substrate for adenosine deaminase and possessed an affinity for the

me only 50% less than that of adenosine with a Ki = 85 µM.

135042-36-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation, antileukemic, and virucidal activity of)

135042-36-3 CAPLUS
2-Pyrrolidinemethanol, 1-[2-amino-3-(4-methoxyphenyl)-1-oxopropyl]-4-[6-(dimethylamino)-9H-purin-9-yl]-, {2R-(1(S\*),2a,4a]}- (9CI)

L10 ANSWER 8 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN ACCESSION NUMBER: 1978:152891 CAPLUS DOCUMENT NUMBER: 88:152891

BB:132891 Studies on heterosugars. Part II. Synthesis of 2,4-diamino-2,4-dideoxy-L-arabinose derivatives (prumycin derivatives)

ipiumycin derivatives)
Hsegawa, Akira: Sakurai, Tooru; Kiso, Makoto
Dep. Agric. Chem., Gifu Univ., Gifu, Japan
Agricultural and Biological Chemistry (1978), 42(1),
153-8 AUTHOR (S): CORPORATE SOURCE: SOURCE:

CODEN: ABCHA6; ISSN: 0002-1369

DOCUMENT TYPE: English

2,4-Diamino-2,4-dideoxy-L-arabinose derivs. were prepared from benzyl 2-(benzyloxycarbonyl)amino-2-deoxy- $\beta$ -D-glucofuranoside by a series of known reactions. Among the compds. prepared is furanoid prumyoin I. 65167-01-9P

Absolute stereochemistry

IT

Page 19

66167-02-0P
RL: SPN (Synthetic preparation): PREP (Preparation)
(preparation of)
66167-02-0 CAPLUS
2,4-Pyrrolidinediol, 3-amino-1-(2-amino-1-oxopropyl)-5-(hydroxymethyl)-,

L10 ANSWER 7 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN (CA INDEX NAME)

Absolute stereochemistry.

L10 ANSWER 8 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN dihydrochloride, [2R-[1(R\*), 2α, 3α, 4β, 5α]]- (9CI) (Continued) (CA INDEX NAME)

Absolute stereochemistry.

●2 HC1

SUSANNAH

## 01/11/2004

L10 ANSWER 9 07 16 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1975:459253 CAPLUS
DOCUMENT NUMBER: 83:59253
Antibiotic actinonin. VII. Mass spectra of

actinonin

AUTHOR (S):

CORPORATE SOURCE: SOURCE:

and related compounds
Anderson, Nicholas H.; Devlin, John P.; Jones,
Stephen; Ollis, W. David; Thorpe, John E.
Dep. Chem., Univ. Sheffield, Sheffield, UK
Journal of the Chemical Society, Perkin Transactions
1: Organic and Bio-Organic Chemistry (1972-1999)
(1975), (9), 852-7
CODEN: JCPRB4; ISSN: 0300-922X
Journal
English
Drinted CA Lasue.

LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB The mass spectrum of actionoin (I) was interpreted by comparison with the fragmentation of the model compds. II-V. The structure of I, except for the position of the pentyl substituent, was determined from the mass spectrum.

IT 54124-60-6

trum.
54124-60-6
RL: RRP (Properties)
(mass spectrum of)
54124-60-6 CAPUS
2-Pyrrolidinemethanol, 1-{2-amino-3-methyl-1-oxobutyl}-, [S-(R\*,R\*)}(9CI) (CA INDEX NAME)

Absolute stereochemistry.

10805624

L10 ANSWER 10 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1975:459252 CAPLUS
B3:99252
TITLE: Antibiotic actinonin. VI. Synthesis of structural analogs of actinonin by dicyclohexylcarbodimide coupling reactions

AUTHOR(S): Devin, John P.: Ollis, W. David: Thorpe, John E.:
Wright, Derek E.

CORPORATE SOURCE: Dep. Chem., Univ. Sheffield, Sheffield, UK
Journal of the Chemical Society, Perkin Transactions
1: Organic and Bio-Organic Chemistry (1972-1999)
(1975), (9), 848-51
CODEN: JCPR84: ISSN: 0300-922X
JOURNENT TYPE: Journal
LANGUAGE: British CAPLUS gave dicarbomyl catids with dicyclohexylcarboddimide in CH2C12 gave dicarbomyl eaters, which with MeOH-NH2OR gave the corresponding hydroxamic acids, analogs of actinonin. E.g., DL-valylmorpholine with MOZCERI (CH2)4Me)COZEt gave the ester I, which gave the hydroxamic acid II.

T \$4124-60-6

RL: RCT (Reactant); RRCT (Reactant or reagent)

\$4124-60-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(coupling reaction with dicarboxylic acid monoesters)
54124-60-6 CAPUS
2-Pyrrolidinemethanol, 1-(2-amino-3-methyl-1-oxobutyl)-, [S-{R\*,R\*}](9CI) (CA INDEX NAME)

Absolute stereochemistry.

54124-60-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction with methanolic hydroxylamine)
54124-60-6 CAPLUS
2-Pyrrolidinemethanol, 1-(2-amino-3-methyl-1-oxobutyl)-, [S-(R\*,R\*)](9CI) (CA INDEX NAME)

Absolute stereochemistry

L10 ANSWER 10 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN

(Continued)

L10 ANSWER 11 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN ACCESSION NUMBER: 1975:459251 CAPLUS 03:59251

DOCUMENT NUMBER: 83:59251 CAPLUS

DOCUMENT NUMBER: 83:59251

TITLE: Antibiotic actinonin. V. Synthesis of structural analogs of actinonin by the anhydride-ester method beviln, John P.: Ollis, W. David: Thorpe, John E. CORPORATE SOURCE: Dep. Chem., Univ. Sheffield, JMK Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1975), (9), 846-8 CODEN. JCPR84; ISSN: 0300-922X

DOCUMENT TYPE: Journal English
GI For diagram(s), see printed CA Issue.

AB Succinic anhydride or its 4-pentyl derivative with amino amides gave dicarbamoyl carboxylic acids, the Me esters of which with NH2OH gave structural analogs of actinonin. E.g., succinic anhydride with alanylpyrrolidine gave the acid I. The ester II with NH2OH gave 52% of the hydroxamic acid III.

TS4124-60-6

RL: RCT (Reactant); RACT (Reactant or Table 1)

54124-60-6
RL: RCT (Reactant): RACT (Reactant or reagent)
(Coupling reaction with succinic anhydrides)
54124-60-6
CAPUS
2-Pyrrolidinemethanol, 1-(2-amino-3-methyl-1-oxobutyl)-, [S-(R\*,R\*)](9CI) (CA INDEX NAME)

Absolute stereochemistry.

# 01/11/2004

L10 ANSWER 12 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
1375:459248 CAPLUS
33:59248
Antibiotic actinonin. II. Total synthesis of actinonin and structural analogs by the isomaleimide method
AUTHOR(S):
Anderson, Nicholas H.; Ollis, W. David: Thorpe, John E.; Ward, A. David
CORPORATE SOURCE:
DOCUMENT SOURCE:
10 Copanic and Bio-Organic Chemistry (1972-1999) (1975), (9), 825-30 (CODEN: JCPRB4: ISSN: 0300-922X Journal LANGUAGE:
English
GI For diagram(s), see printed CA Issue.
BY ValyIprolinol with the isomaleimide I gave O-benzyldidehydroactinonin
Which on hydrogenation gave actinonin (III). Analogs IV-VI were prepared which on hydrogenation gave actinonin (III). Analogs IV-VI were prepared similarly from alanylpyrrolidine, valylpyrrolidine, and valylprolinol,

54124-60-69
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction with isomaleimide derivative)
54124-60-6 CAPIUS
2-Pyrrolidinemethanol, 1-(2-amino-3-methyl-1-oxobutyl)-, [S-(R\*,R\*)](9CI) (CA INDEX NAME)

Absolute stereochemistry.

RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of

10805624

L10 ANSWER 13 OF 16
ACCESSION NUMBER:
DOCUMENT NUMBER:
1975:459247 CAPLUS
23:59247
Antibiotic actinonin. I. Constitution of actinonin.
Natural hydroxamic acid with antibiotic activity
Gordon, James J.; Devlin, John P.; East, Anthony J.;
Ollis, W. David; Sutherland, Ian O.; Wright, Derek

E.;

Ninet, Leon
Antibiot. Res. Stat., Med. Res. Counc., Clevedon, UK
SOURCE:

Ournal of the Chemical Society, Perkin Transactions
1: Organic and Bio-Organic Chemistry (1972-1999)
(1975), (9), 819-25
CODEN: JCPRB4; ISSN: 0300-922X
JOURNAL
LANGUAGE:

English
GI For diagram(s), see printed CA Issue.
AB The structure of actinonin (1), isolated from Streptomyces roseopallidus, was determined by degradation to its constituent residues, L-prolinol, valine, 

CM 1

CRN 54124-60-6 CMF C10 H20 N2 O2

Absolute stereochemistry.

CM 2

CRN 88-89-1 CMF C6 H3 N3 O7

L10 ANSWER 13 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

L10 ANSWER 14 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN ACCESSION NUMBER: 1974:535864 CAPLUS DOCUMENT NUMBER: 81:135864 TITLE: Total synthesis of the antibiot 81:135864
Total synthesis of the antibiotic, actinonin
Anderson, Nicholas H.; Ollis, W. David; Thorpe, John
E.; Ward, A. David
Dep. Chem., Univ. Sheffield, Sheffield, UK
Journal of the Chemical Society, Chemical
Communications (1974), (11), 420-1
CODEN: JCCCAT; ISSN: 0022-4936 AUTHOR (S):

CORPORATE SOURCE: SOURCE:

LANGUAGE: Journal English
GI For diagram(s), see printed CA Issue.
AB A regioselective and stereoselective synthesis of actinonin (I) from condensation of pentylmaleic anhydride with PhCH2ONH2 was described.

T 54124-60-6

54124-60-6

RL: RCT (Reactant); RACT (Reactant or reagent)
(addition reaction with isomaleimide)
54124-60-6 CAPLUS
2-Pyrrolidinemethanol, 1-(2-amino-3-methyl-1-oxobutyl)-, [S-(R\*,R\*)](9CI) (CA INDEX NAME)

Absolute stereochemistry.

## 10805624

L10 ANSWER 15 OF 16
ACCESSION NUMBER:
DOCUMENT NUMBER:
TITLE:
AUTHOR(S):
CAPLUS COPYRIGHT 2004 ACS on STN
1974:108480 CAPLUS
80:108480
Unconventional nucleotide analogs. XI. Synthesis of a nonsaccharidal analog of puromycin
Kaspersen, Frans M.; Bieraugel, Hans; Pandit, Upendra

K.
Org. Chem. Lab., Univ. Amsterdam, Amsterdam, Neth.
Heterocycles (1974), 2(1), 15-19
CODEN: HTCYAM; ISSN: 0385-5414 CORPORATE SOURCE: SOURCE:

CODEN: HTCLAM; ISSN: 0385-5414

DOCUMENT TYPE: JOURNAL
LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB The title puromycin analog (1), of interest because of analogy to
nucleo-peptide models, is prepared Thus, (-)-4-hydroxy-L-proline was
converted to II which on treatment with 5-amino-4, 6-dichloropyrimidine
followed by ring closure ([EtO]3CH] gave III (R = CL, R1 = tosyl).
Reaction of this with McAPH and detosylation gave III (R = NMe2, R1 = H).
Coupling of this with Cbz N-protected 4-MeOC6H4CH2CH(NH2)-CO2H gave,
after

after

IT

removal of the Cbz group, I.

Si950-02-8p
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
51950-02-8 CAPIUS
2-Pyrrolidinemethanol, 1-(2-amino-3-(4-methoxyphenyl)-1-oxopropyl]-4-[6-(dimethyl/amino)-9H-purin-9-yl]-, [2S-[1(R\*),2a,4a]]- (9CI)
(CA INDEX NAME)

Absolute stereochemistry.

L10 ANSWER 16 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 2-A

LIO ANSWER 16 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1966:482599 CAPLUS

DOCUMENT NUMBER: 65:82599

ORIGINAL REFERENCE NO.: 65:15497c-d

TITLE: Partial acid hydrolysis of y-keratose

AUTHOR(S): Asquith, R. S.; Shaw, T.

CORPORATE SOURCE: Bradford Inst. Tech., Bradford, UK

SOURCE: J. Textile Inst. Trans. (1966), 57(6), 242-53

DOCUMENT TYPE: Journal

LANGUAGE: J. Textile Inst. Trans. (1966), 57(6), 242-53

DOCUMENT TYPE: Journal

LANGUAGE: J. Textile Inst. Trans. (1966), 57(6), 242-53

DOCUMENT TYPE: Journal

Language: J. Textile Inst. Trans. (1966), 57(6), 242-53

DOCUMENT TYPE: Journal

Language: J. Textile Inst. Trans. (1966), 57(6), 242-53

DOCUMENT TYPE: Journal

Language: J. Textile Inst. Trans. (1966), 57(6), 242-53

DOCUMENT TYPE: Journal

Language: J. Textile Inst. Trans. (1966), 57(6), 242-53

DOCUMENT TYPE: Journal

Language: J. Textile Inst. Trans. (1966), 57(6), 242-53

DOCUMENT TYPE: Journal

Language: J. Textile Inst. Trans. (1966), 57(6), 242-53

DOCUMENT TYPE: Journal

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